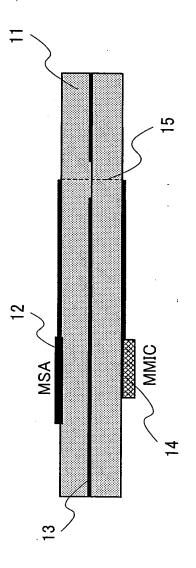
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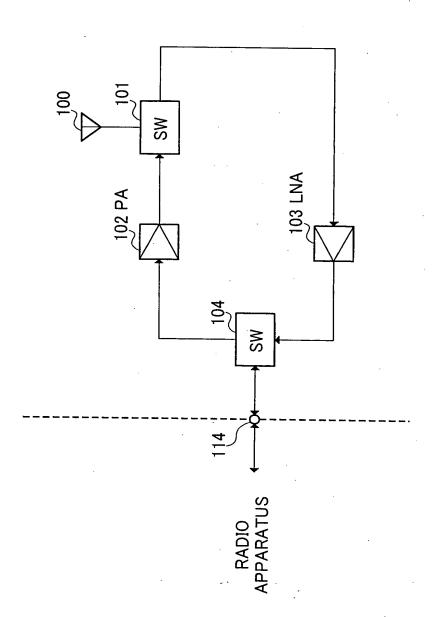


FIG.2

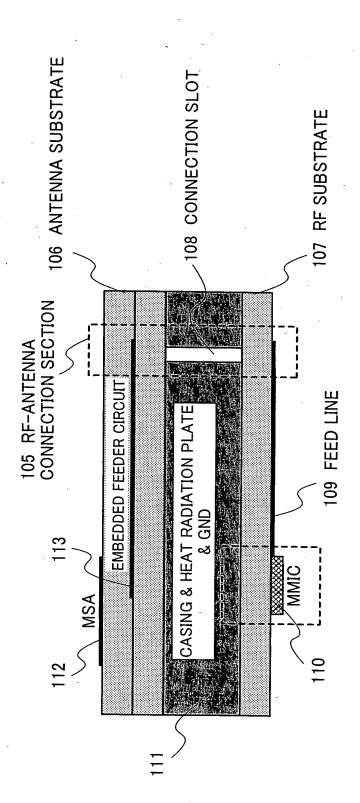
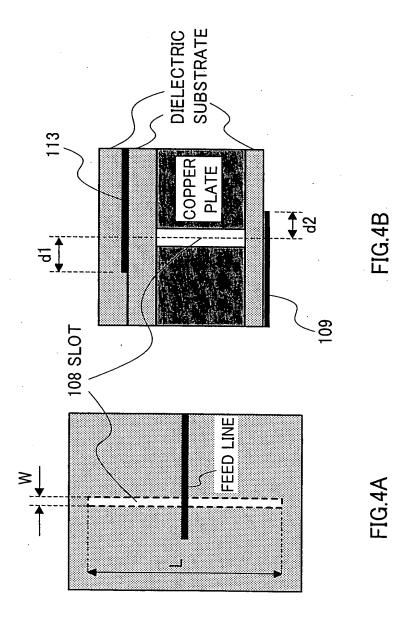


FIG.3



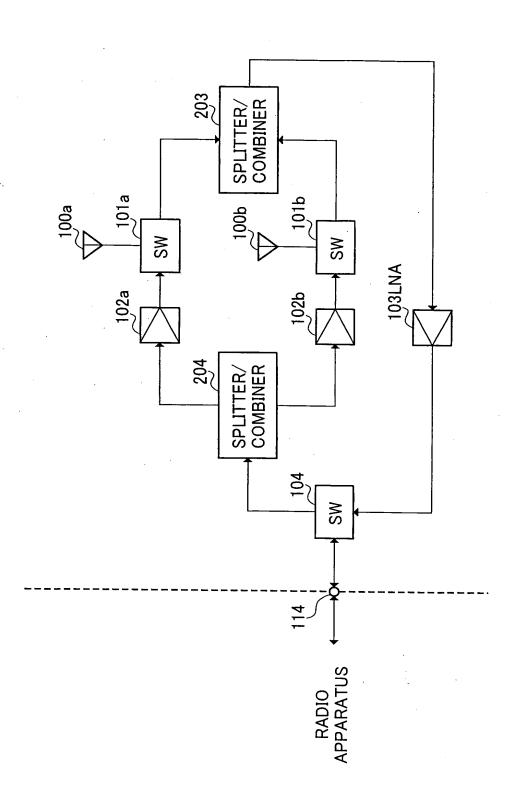


FIG.5

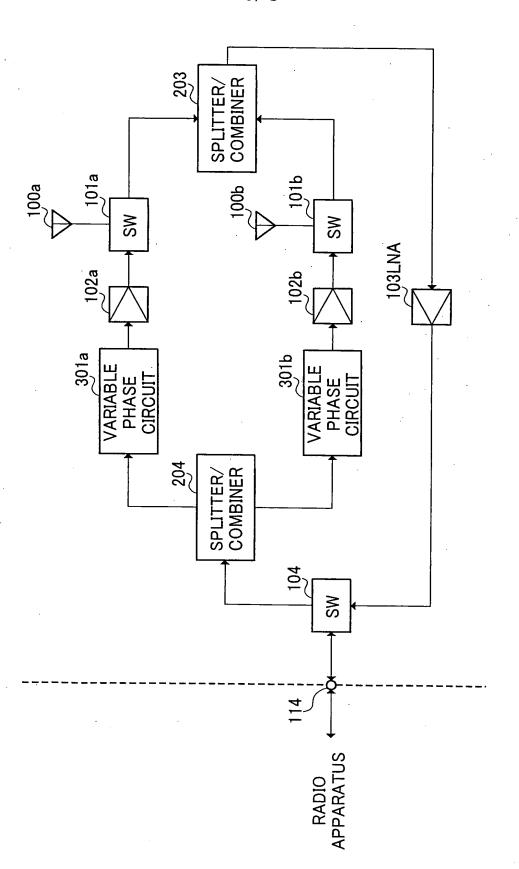


FIG.6

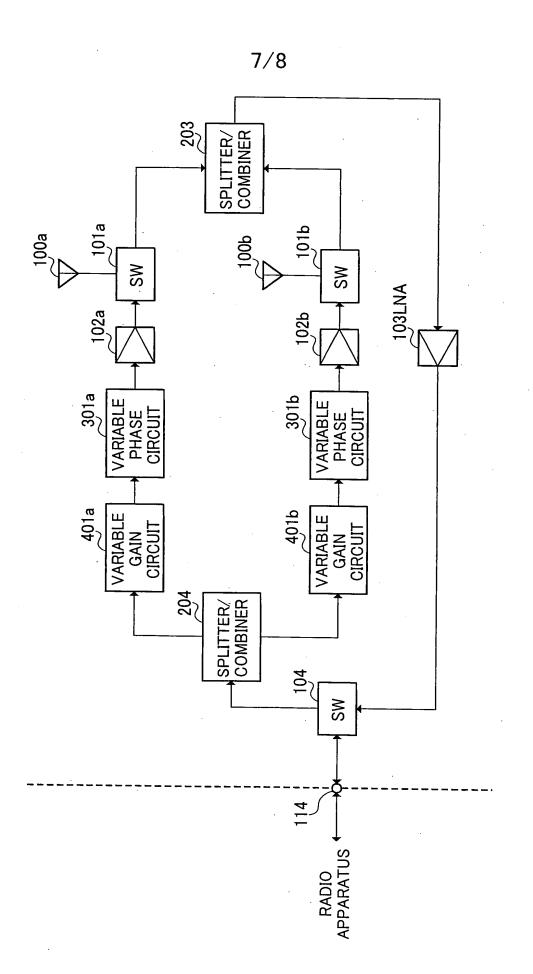
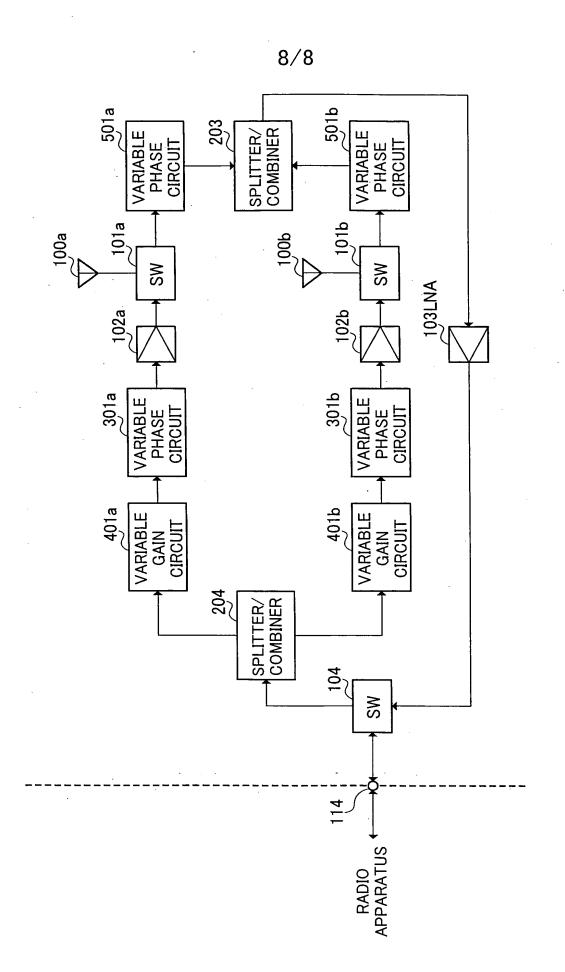


FIG.7



-16.8

[FIG.2]

RADIO APPARATUS

[FIG.3]

- 5 105 RF-ANTENNA CONNECTION SECTION
 - 106 ANTENNA SUBSTRATE
 - 113 EMBEDDED FEEDER CIRCUIT
 - 111 CASING & HEAT RADIATION PLATE & GND
 - 108 CONNECTION SLOT
- 10 109 FEED LINE
 - 107 RF SUBSTRATE

[FIG.5]

RADIO APPARATUS

- 15 204 SPLITTER/COMBINER
 - 203 SPLITTER/COMBINER

[FIG.6]

RADIO APPARATUS

- 20 204 SPLITTER/COMBINER
 - 301a VARIABLE PHASE CIRCUIT
 - 301b VARIABLE PHASE CIRCUIT
 - 203 SPLITTER/COMBINER
- 25 [FIG.7]

RADIO APPARATUS

204 SPLITTER/COMBINER

401a VARIABLE GAIN CIRCUIT

- 401b VARIABLE GAIN CIRCUIT
- 301a VARIABLE PHASE CIRCUIT
- 301b VARIABLE PHASE CIRCUIT
- 203 SPLITTER/COMBINER

5

[FIG.8]

RADIO APPARATUS

- 204 SPLITTER/COMBINER
- 401a VARIABLE GAIN CIRCUIT
- 10 401b VARIABLE GAIN CIRCUIT
 - 301a VARIABLE PHASE CIRCUIT
 - 301b VARIABLE PHASE CIRCUIT
 - 501a VARIABLE PHASE CIRCUIT
 - 203 SPLITTER/COMBINER
- 15 501b VARIABLE PHASE CIRCUIT